

-32-

ABSTRACT OF THE DISCLOSURE

A wheel having a controlled and compensated pressure includes a rim associated with a tank adapted to be filled with a fluid to a first pressure; a tyre mounted on the rim and having an inner volume inflated to an operating pressure, the operating pressure being lower than the first pressure; at least one valve adapted to regulate a communication between the tank and the inner volume of the tyre, the valve having at least one elastic element operatively associated with a closure member designed to open and close a port of the valve to bring the tank into communication with the tyre when the pressure of the tyre is lower than the operating pressure, the elastic element having an elastic constant showing a variation of 10% to 40% within a temperature range of about -50°C to about 50°C.